

Microbial Cellulose Market Size And Strategies 2023-2032 - Growth Analysis, Outlook, Overview

Microbial Cellulose Market to Garner \$64.5 Million, Globally, By 2032 at 12.2% CAGR, Says Allied Market Research

PORTLAND, OREGON, UNITED STATES, April 8, 2024 /EINPresswire.com/ -- The report titled "[Microbial Cellulose Market](#) By Growth Medium (Synthetic, Natural), By Application (Food And Beverage, Medical, Cosmetics And Personal Care, Paper, Textile, Others): Global Opportunity Analysis And Industry Forecast, 2023-2032" was recently published by Allied Market Research. According to this report, the global microbial cellulose industry reached \$20.7 million in revenue in 2022 and is projected to reach \$64.5 million by 2032, with a compound annual growth rate (CAGR) of 12.2% from 2023 to 2032.

Microbial cellulose, also known as bacterial cellulose or biocellulose, is produced by aerobic bacteria, particularly acetic acid bacteria of the genus *Gluconacetobacter xylinum*. It is synthesized as a polymer and nanomaterial through biotechnological assembly methods using low-molecular-weight carbon sources. Various groups of microorganisms are involved in the synthesis of microbial cellulose through static or agitated fermentation methods in suitable growth media. Agitated cultivation generally yields the highest amount of microbial cellulose compared to static cultivation.

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Microbial cellulose exhibits favorable interactions with both hydrophilic and hydrophobic biopolymers, making it valuable in biomedical applications. In recent research, there has been a growing interest in utilizing microbial cellulose to reinforce biopolymer-based biocomposites, with a focus on its antibiofilm properties for treating biofilm-mediated chronic wounds and infections.

The prime drivers of growth in the global microbial cellulose market include increasing demand from the medical and cosmetics industries, as well as the rapid expansion of the food and beverage sector. However, the high production cost associated with microbial cellulose remains a challenge for market growth. Nonetheless, the rising demand for personal care products and ingredients is expected to present lucrative opportunities for market expansion in the foreseeable future.

The synthetic growth medium segment held the largest share of the market revenue in 2022, contributing to over two-thirds of the total revenue, and is expected to maintain its lead position throughout the forecast period. The Hestrin-Schramm medium (HS) is a popular synthetic medium used for microbial cellulose production, although optimization of its composition can further enhance microbial cellulose yield. On the other hand, the natural growth medium segment is anticipated to grow at a CAGR of 12.3% from 2023 to 2032, offering a cost-efficient alternative to synthetic media.

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In terms of applications, the medical segment led the market in 2022 and is projected to maintain its dominance during the forecast period, primarily driven by the use of microbial cellulose in biomedical applications such as wound dressing and tissue engineering. The food and beverage segment is expected to grow at a CAGR of 12.7% from 2023 to 2032, with microbial cellulose finding applications as a stabilizer, thickener, and texture modifier, as well as in food packaging.

Geographically, Asia-Pacific accounted for the highest market share in 2022 and is poised to maintain its dominance through 2032, with a projected CAGR of 12.5%. The region's prominence is attributed to the promising dermo-pharmacological applications of microbial cellulose, particularly in personal care products, coupled with the rapid growth of the cosmetics sector in Southeast Asia.

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Key players in the global microbial cellulose market include BORREGAARD AS, AXCELON BIOPOLYMERS CORPORATION, BOWIL BIOTECH SP. Z O.O., MERCK KGAA, BACPOLYZYME, ASHLAND, HYSSES, BIOESQUE, HBBE, and HNB BIO CO., LTD. These companies have adopted various strategies such as new product launches, collaborations, and expansions to strengthen their market presence and gain a competitive edge. The report provides a comprehensive analysis of these players' business performance, operating segments, product portfolios, and strategic initiatives to offer insights into the competitive landscape of the market.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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